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Sheet 1 of 1

Application Number	10/698,811
Filing Date	October 30, 2003
First Named Inventor	Sumit Roy et al
Art Unit	2131
Examiner Name	
Attorney Docket Number	200313238-1

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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**Examiner
Signature**

/Carlton Johnson/

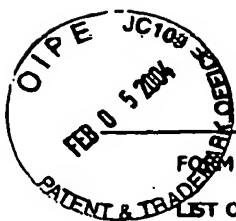
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FORM PTO-1449

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

200313238-1

APPLICATION NO.

10/698,811

CONFIRMATION NO.

APPLICANT

Sumit ROY, et al.

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GROUP

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CJ	1C	5,937,388	Aug. 10, 1999	Davis, et al.	
CJ	1D	6,055,433	Apr. 25, 2000	Yuan, et al.	
CJ	1E	6,463,454	Oct. 8, 2002	Lumelsky, et al.	
CJ	1F	2003/0046396	Mar. 6, 2003	Richter, et al.	
CJ	1G	2002/0152305	Oct. 17, 2002	Jackson, et al.	
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CJ	1M	WO02/058396	25/07/2002	Streamworks Tech		
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

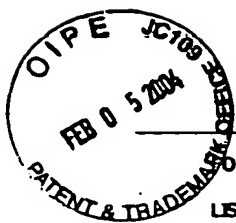
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CJ	1R	M. Handley, et al.; "SDP: SESSION DESCRIPTION PROTOCOL"; copyright: The Internet Society (1998); April 1998; 40 Pages.
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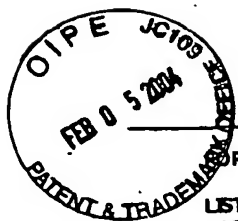
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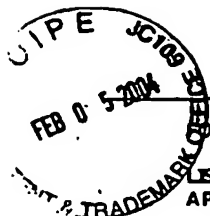
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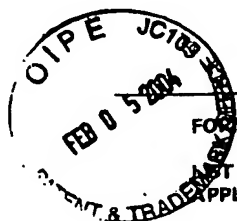
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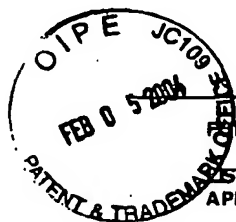
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CJ	1S	Wei-Ying Ma, et al.; "CONTENT SERVICES NETWORK: THE ARCHITECTURE AND PROTOCOLS"; 9 Pages.

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Figure 1 shows the functional components of a PSS client. Figure 2 gives an overview of the protocol stack used in a PSS client and also shows a more detailed view of the packet based network interface. The functional components can be divided into control, scene description, media codecs and the transport of media and control data.

The control related elements are session establishment, capability exchange and session control (see clause 5).

- Session establishment refers to methods to invoke a PSS session from a browser or directly by entering an URL in the terminal's user interface.
- Capability exchange enables choice or adaptation of media streams depending on different terminal capabilities.
- Session control deals with the set-up of the individual media streams between a PSS client and one or several PSS servers. It also enables control of the individual media streams by the user. It may involve VCR-like presentation control functions like start, pause, fast forward and stop of a media presentation.

The scene description consists of spatial layout and a description of the temporal relation between different media that is included in the media presentation. The first gives the layout of different media components on the screen and the latter controls the synchronisation of the different media (see clause 8).

The PSS includes media codecs for video, still images, vector graphics, bitmap graphics, text, timed text, natural and synthetic audio, and speech (see clause 7).

Transport of media and control data consists of the encapsulation of the coded media and control data in a transport protocol (see clause 6). This is shown in figure 1 as the "packet based network interface" and displayed in more detail in the protocol stack of figure 2.

Video Audio Speech	Capability exchange Scene description Presentation description Still images Bitmap graphics Vector graphics Text Timed text Synthetic audio	Capability exchange Presentation description
Payload formats	HTTP	RTSP
RTP		
UDP	TCP	UDP
IP		

Figure 2: Overview of the protocol stack

5 Protocols

5.1 Session establishment

Session establishment refers to the method by which a PSS client obtains the initial session description. The initial session description can e.g. be a presentation description, a scene description or just an URL to the content.

A PSS client shall support initial session descriptions specified in one of the following formats: SMIL, SDP, or plain RTSP URL.